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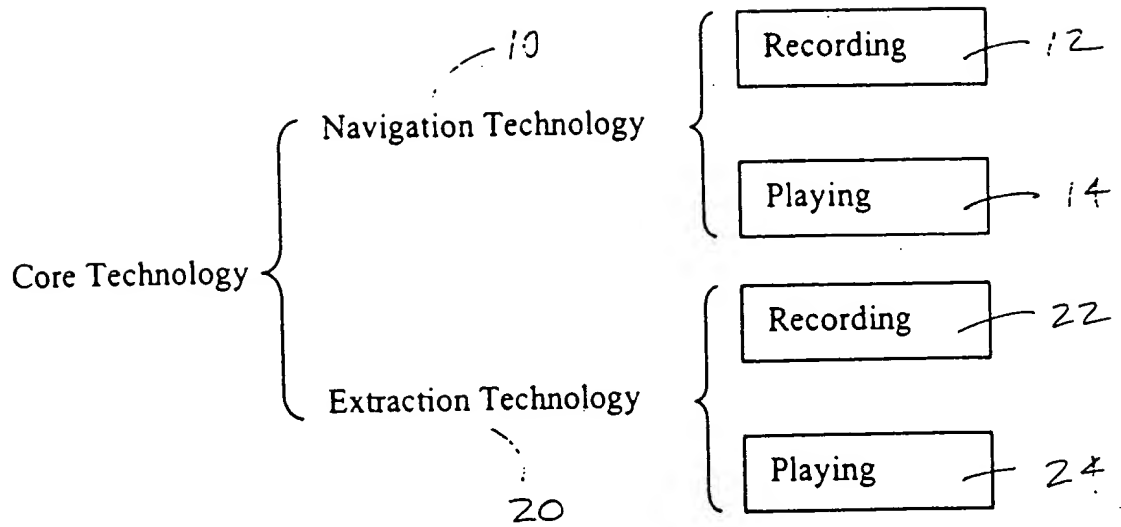


FIGURE 1

## Recording Navigation Script - Getting to a Page

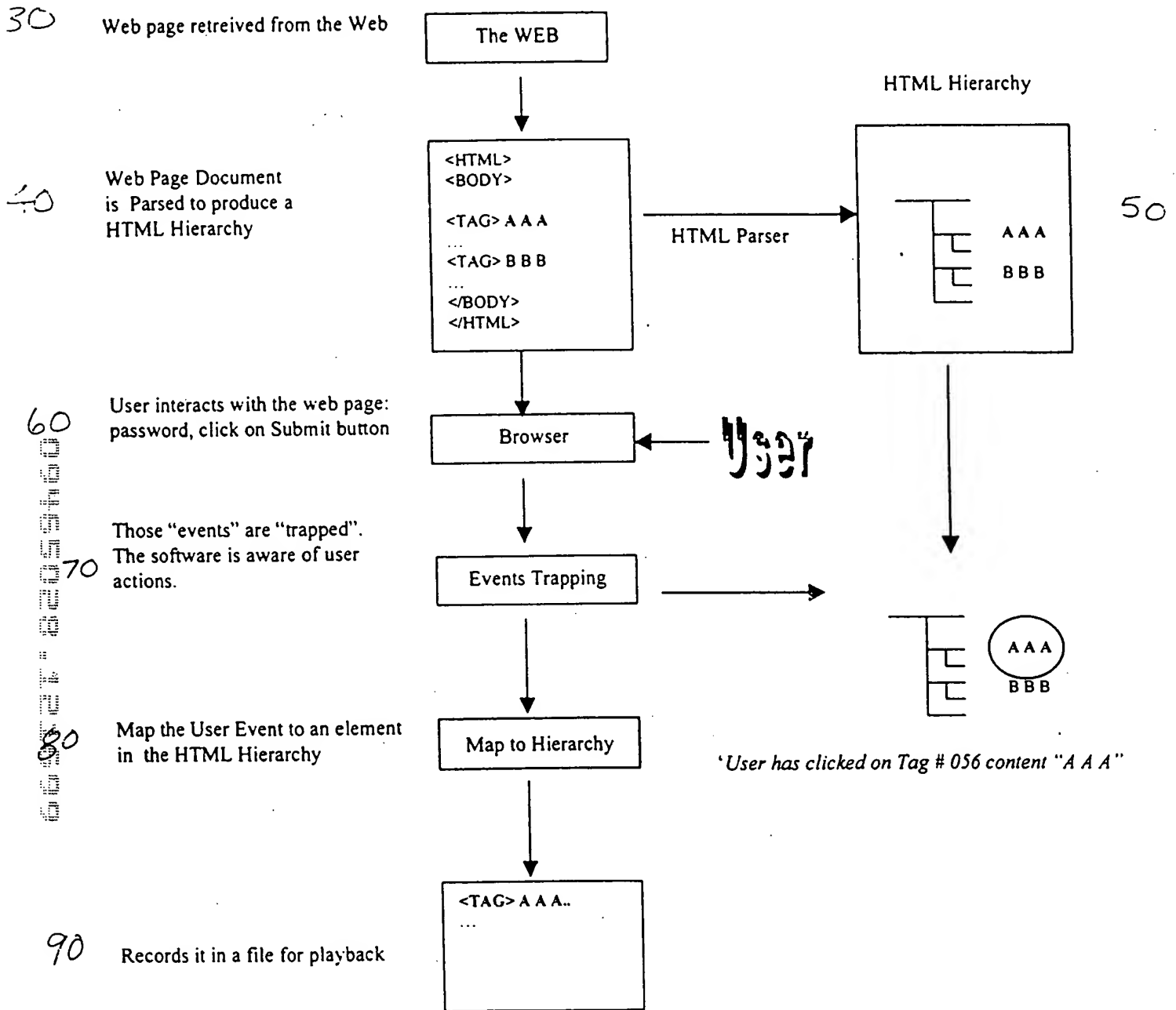


FIGURE 2

### FIGURE 3

# Recording Extraction Script - What to t from the page

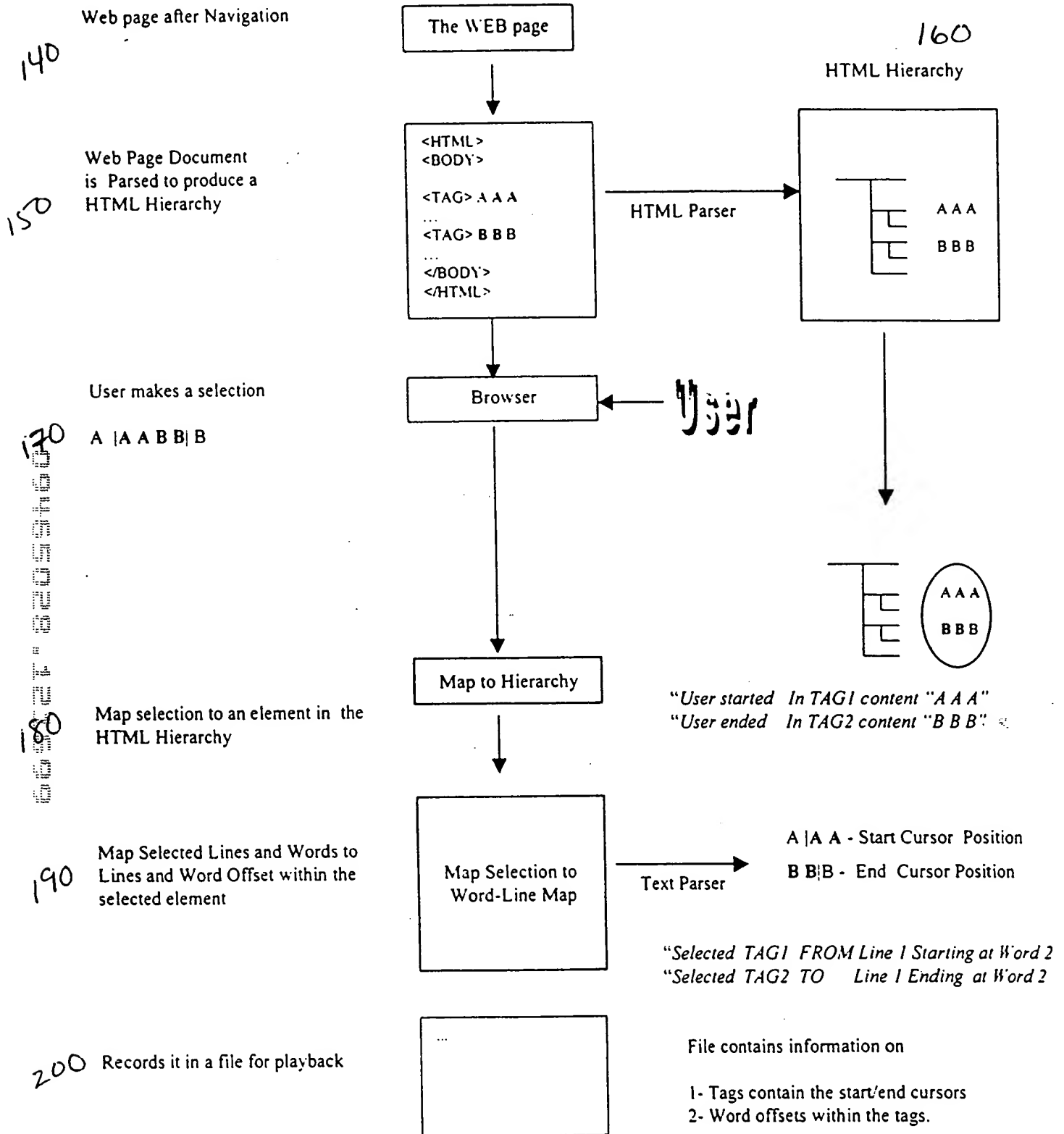


FIGURE 4

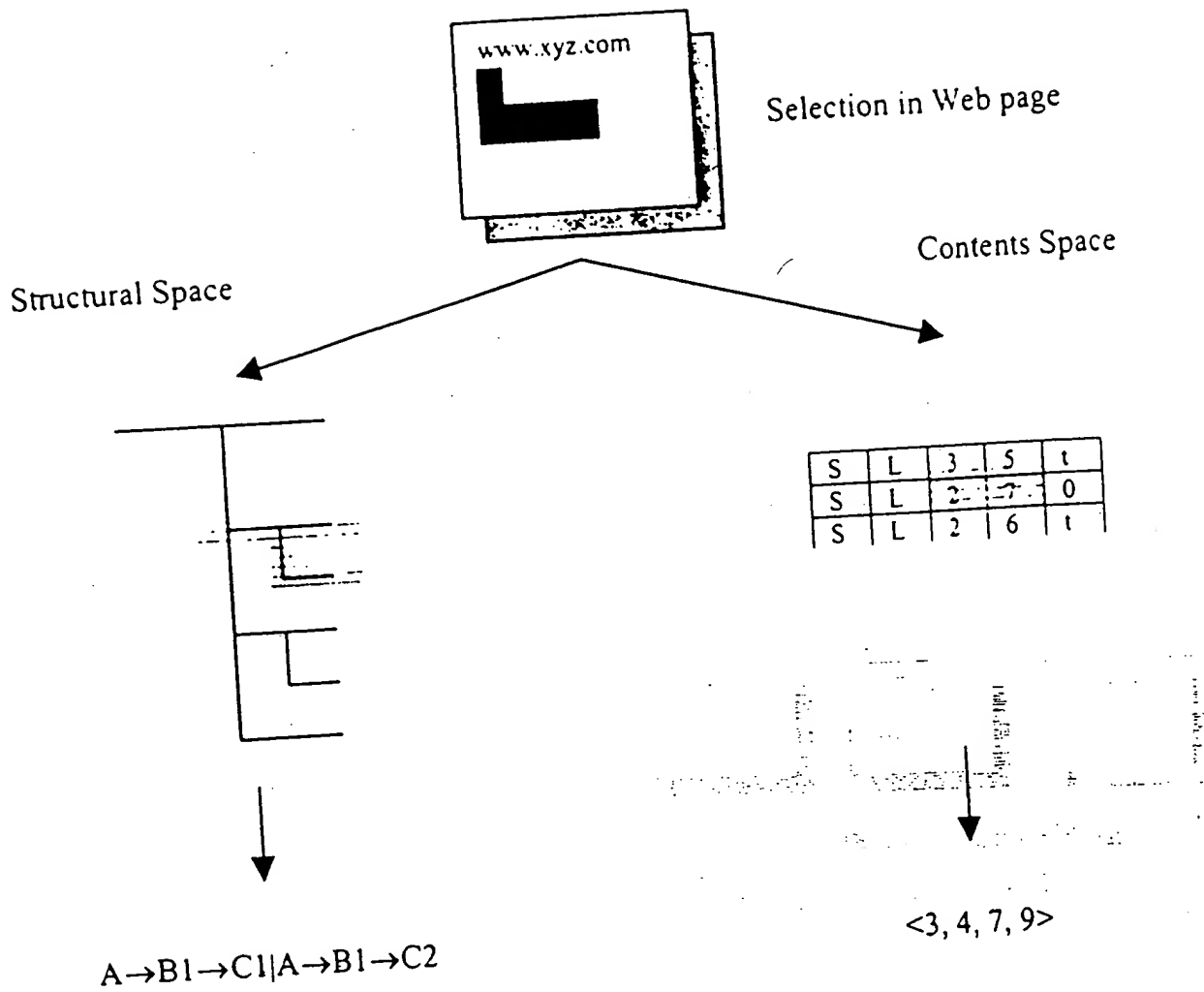


FIGURE 5

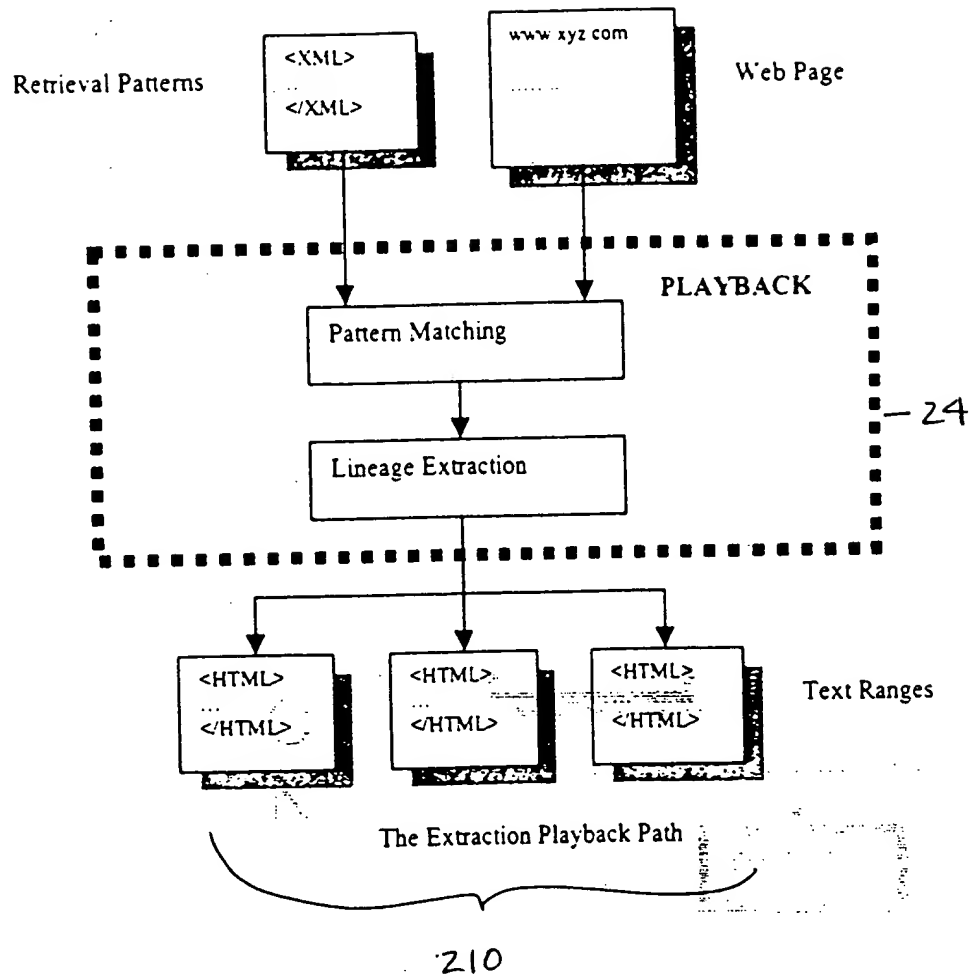


FIGURE 6

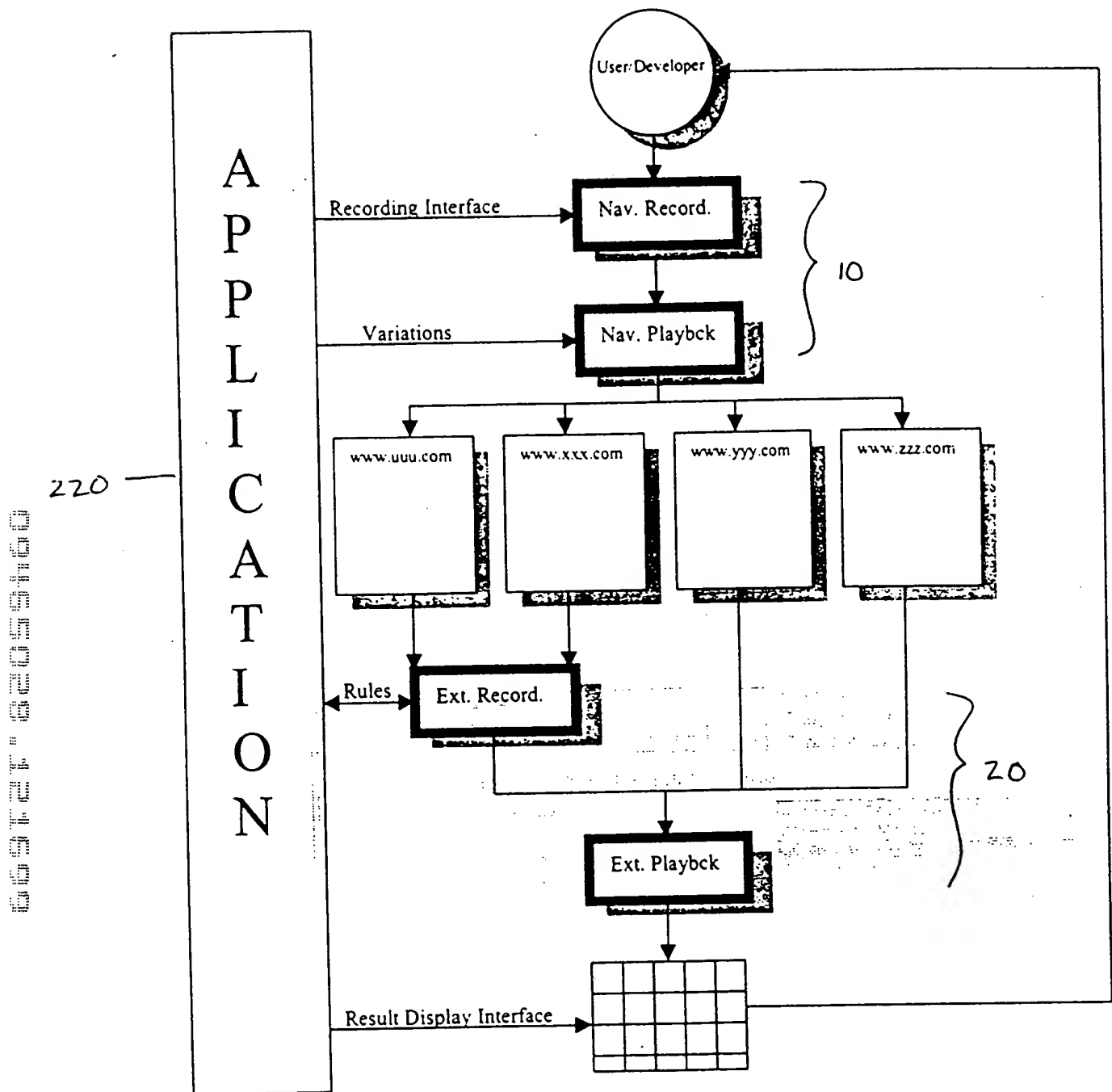


FIGURE 7



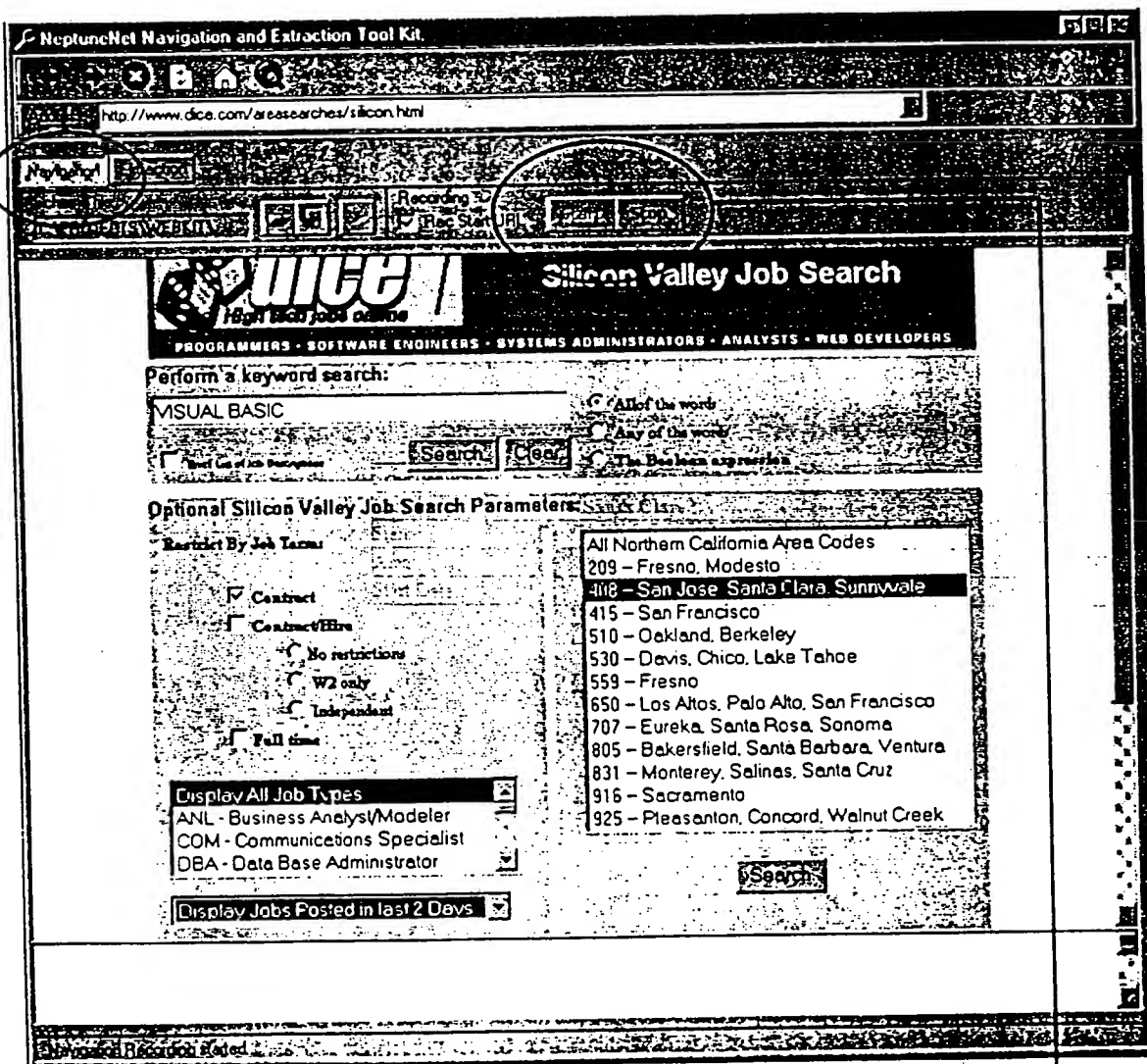
# Ease Of Use: Build Your Own "JobFinder"

It takes just a few steps to build any Application.

For Example: Looking For a Job? Make your own JOB FINDER!

Step 1: Navigation

- Navigation: Navigate to the URL, Record & Playback the Sequence
- Extraction: How to extract specific information
- Find Text: Use Find Text to find "interesting" information



- Just press 'Start' button and Surf as usual.
- Your actions are recorded.
- When you are done, press 'Stop' button.

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FIGURE 8

# JobFinder : Extraction

## Step 2: Extraction

- Navigation: Navigate to the URL, Record and Playback the Sequence
- Extraction: How to extract specific information
- Find Text: Use Find Text to find "interesting" information

NeptuneNet Navigation and Extraction Tool Kit.

http://jobsearch.dice.com/jobsearch/jobresults.cgi?sr=1&hp=50&cf=1d651dca00&briel=0&banner=1

Extraction

1 - 21

Position Title: SOA Contractor

|                  |                                       |           |            |
|------------------|---------------------------------------|-----------|------------|
| Skills required: | SQA, Tester, Visual Basic, QA Partner |           |            |
| Location:        | San Jose                              |           |            |
| State:           | CA                                    | Pay Rate: | 40/hr      |
| Area:            | 408                                   | Term:     | CON W2ONLY |
| Start Date:      | ASAP                                  | Length:   | 0 months   |

Position Title: Windows Programmer

|                  |                               |           |                    |
|------------------|-------------------------------|-----------|--------------------|
| Skills required: | Visual C++, VB, MFC, active x |           |                    |
| Location:        | Santa Clara                   |           |                    |
| State:           | CA                            | Pay Rate: | Open               |
| Area:            | 408                           | Term:     | CON W2ONLY         |
| Start Date:      | ASAP                          | Length:   | less than 6 months |

Position Title: Scripting Engineer

|                  |                                             |  |  |
|------------------|---------------------------------------------|--|--|
| Skills required: | UNIX, TCL/Scripting, Visual Basic Scripting |  |  |
|------------------|---------------------------------------------|--|--|

SOA Contractor SQA, Tester, Visual Basic, QA Partner |

User identified data to be retrieved automatically. Recorded in lower Window.

- Just highlight the information you want to retrieve from the web page
- Click on the toolbar buttons to fine tune and record your action(s).

## FIGURE 9

# Your JobFinder Output

Save your "script" and run it on demand. View output on your Browser.  
Save it in Excel, Access or Word. Do it Every Hour - automatically.

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| Job Title                                              | Skills/Requirements                                      | Location       | Rate                 | Duration              |
|--------------------------------------------------------|----------------------------------------------------------|----------------|----------------------|-----------------------|
| <u>SQA Contractor</u>                                  | SQA, Tester, Visual Basic, QA Partner                    | San Jose       | 40/hr                | 3 months              |
| <u>Windows Programmer</u>                              | Visual C++, VB, MFC, active x                            | Santa Clara    | Open                 | less than 6 months    |
| <u>Scripting Engineer</u>                              | UNIX, TCL/Scripting, Visual Basic Scripting              | San Jose       | Top Rate, DOE        | Contract              |
| <u>Visual Basic programmer</u>                         | Visual Basic 5.0/7.0, SQL Server 6.5, MS Access          | San Jose       | DOE                  | 6 months+             |
| <u>Visual Basic Developer</u>                          | VB Programmer                                            | Mountain View  | DOE                  | Indefinite            |
| <u>Sr. NT Systems Administrator</u>                    | NT, Internet, IIS, Visual Basic, VB Script, Firewall     | Silicon Valley | Market Rate          | 6 months              |
| <u>Visual Basic Programmer/Analyst</u>                 | VB 4.0 or higher, Oracle, various database experience    | Santa Clara    | DOE                  | 6-9 months            |
| <u>Web Developer</u>                                   | E-commerce, SQL server, Active X and Visual Basic        | San Jose       | \$43 - \$47 per hour | 3-4 Months/Indefinite |
| <u>programmer</u>                                      | VAX/VMS, alpha, COBOL                                    | Santa Clara    | \$58.00              | 3 months              |
| <u>Visual Basic Programmer/Windows 95/98-OrderMgmt</u> | Shipped Product to Market/Accounting Exp. a PLUS         | San Jose       | DOE                  | 1 month +             |
| <u>IT Engineer</u>                                     | Oracle RDBMS, PLSQL, SQL, C/C++, CGI, HTML, Visual Bas   | San Jose       | Top Rate, DOE        | Contract              |
| <u>Senior NT Systems Administrator</u>                 | Windows NT, Internet Information Server, Back Office     | San Jose       | DOE                  | TBD                   |
| <u>Software Developer/C, PLSQL, PERL</u>               | c, PLSQL, PERL, VB, Oracle forms, MSAccess               | Santa Clara    | OPEN                 | 3 mos+                |
| <u>Immediate Openings 11/16-11/20 1998</u>             | SQA, Visual Basic, Filemaker, Help Desk, trainer         | Bay Area       | DOE                  | 6 month contract +    |
| <u>Manufacturing Technician</u>                        | CTM Test Manufacturing                                   | Santa Clara    | open                 | 6-12 months           |
| <u>Senior NT Systems Administrator</u>                 | windows NT (4+ yrs), IIS, unix, Visual Basic, e-commerce | Santa Clara    | market               | 6+ months             |
| <u>IT Engineer</u>                                     | Oracle RDBMS, PLSQL, SQL Loader, C, C++, CGI, HTML       | San Jose       | DOE                  | 3+ months             |
| <u>SAS Programmer</u>                                  | SAS programmer for QA Dept                               | Milpitas       | \$54.70/hr           | 2-5 months            |
| <u>IT SOLUTION SPECIALIST</u>                          | V.B., C++, NT AND/OR WIN95, COBOL, HP3000, FTP           | SUNNYVALE      | \$55-\$60/HR.        | 3MONTHS               |
| <u>Lotus Notes Developer</u>                           | Domino Web Client, Lotus Script, HTML                    | Santa Clara    | Open                 | Contract              |
| <u>Sr. NT System Administrator</u>                     | NT, IIS, Back Office, scripting                          | Santa Clara    | excellent            | 12 months             |

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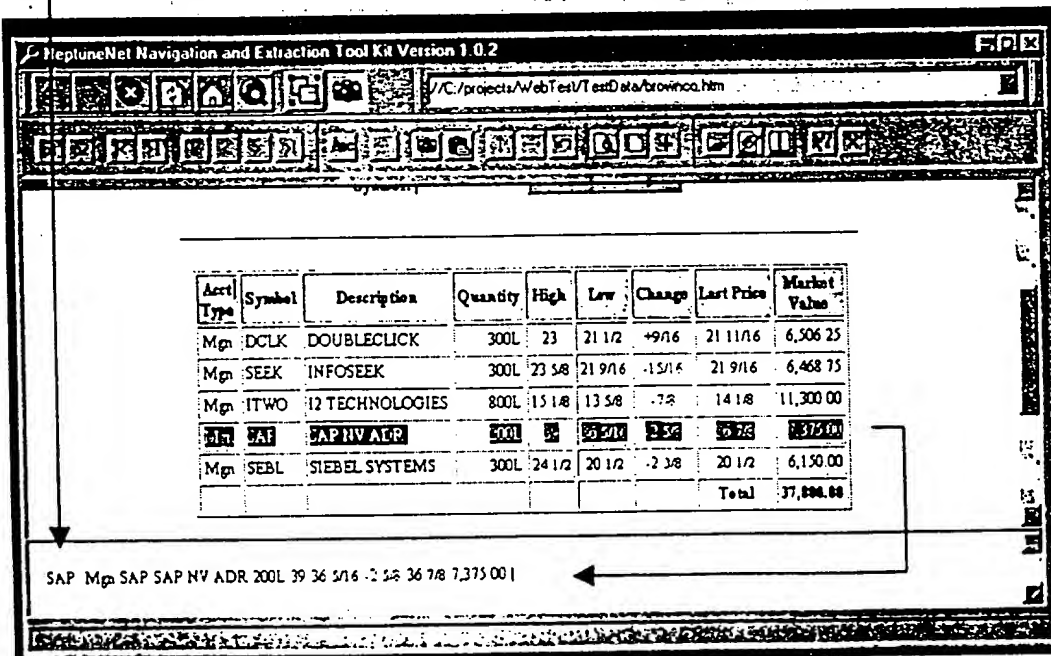
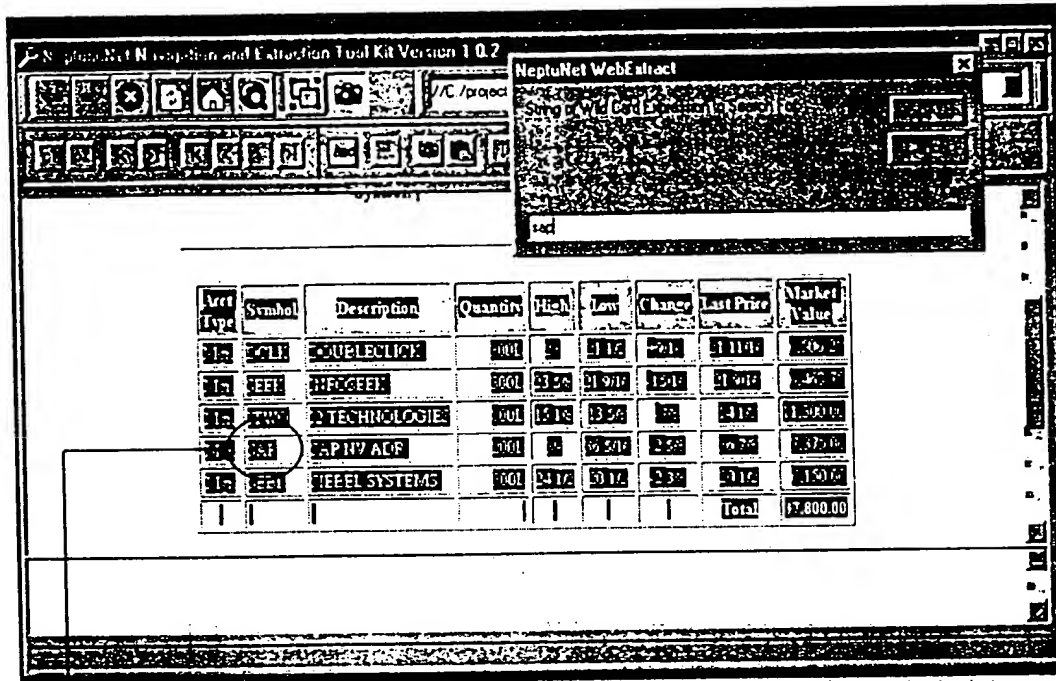
Automatic extraction of jobs data. Data may also be transferred to a data base for SQL processing

FIGURE 10

## Additional Search Tools: Find Text

### • Step 3: Find Text

- Navigation: Navigate to the URL, Record and Playback the Sequence
- Extraction: How to extract specific information
- Find Text: Use Find Text to find "interesting" information



1 Type in the string to search for, e.g.

"SAP"

2 Selection of relevant data based on Found Text :

The Row

FIGURE 11

## FIGURE 12

**CaptiNet uses the Web Page Hierarchy to locate elements in that Web Page.**

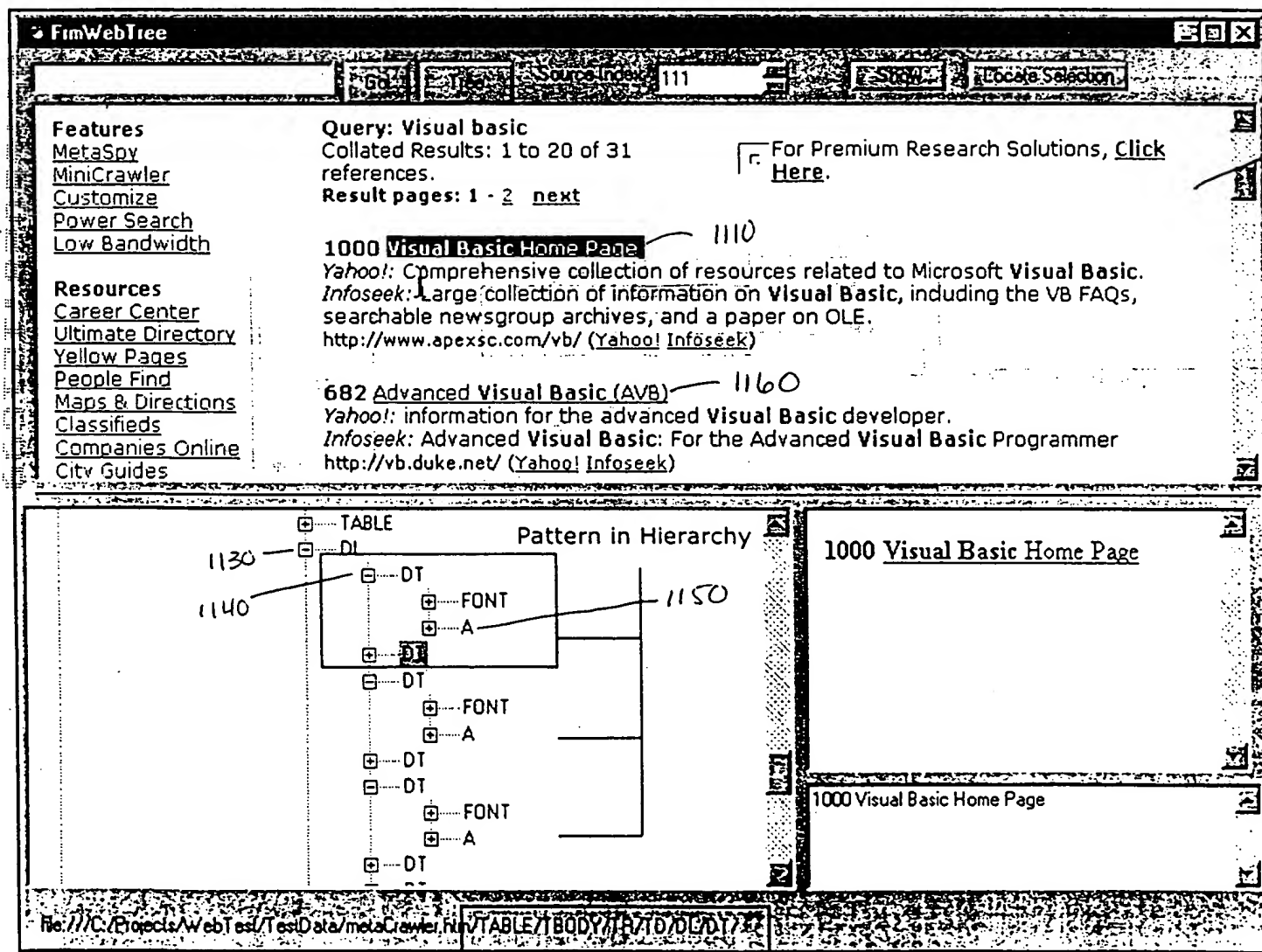
**Example:**

**“Visual Basic Home Page”** is a selection in the Web page. We wish to reselect it in a new web page that shares the same Page characteristics.

By locating its parent elements, A Ancestry Tree for the page is built. This Tree is the HTML Hierarchy - an Org Chart for the page.

Using the Org Chart, one can locate the same element in another Web page that shares the same hierarchy.

Later we will exploit the fact that a sequence or "pattern" exists in the Ancestry Tree..



lineage



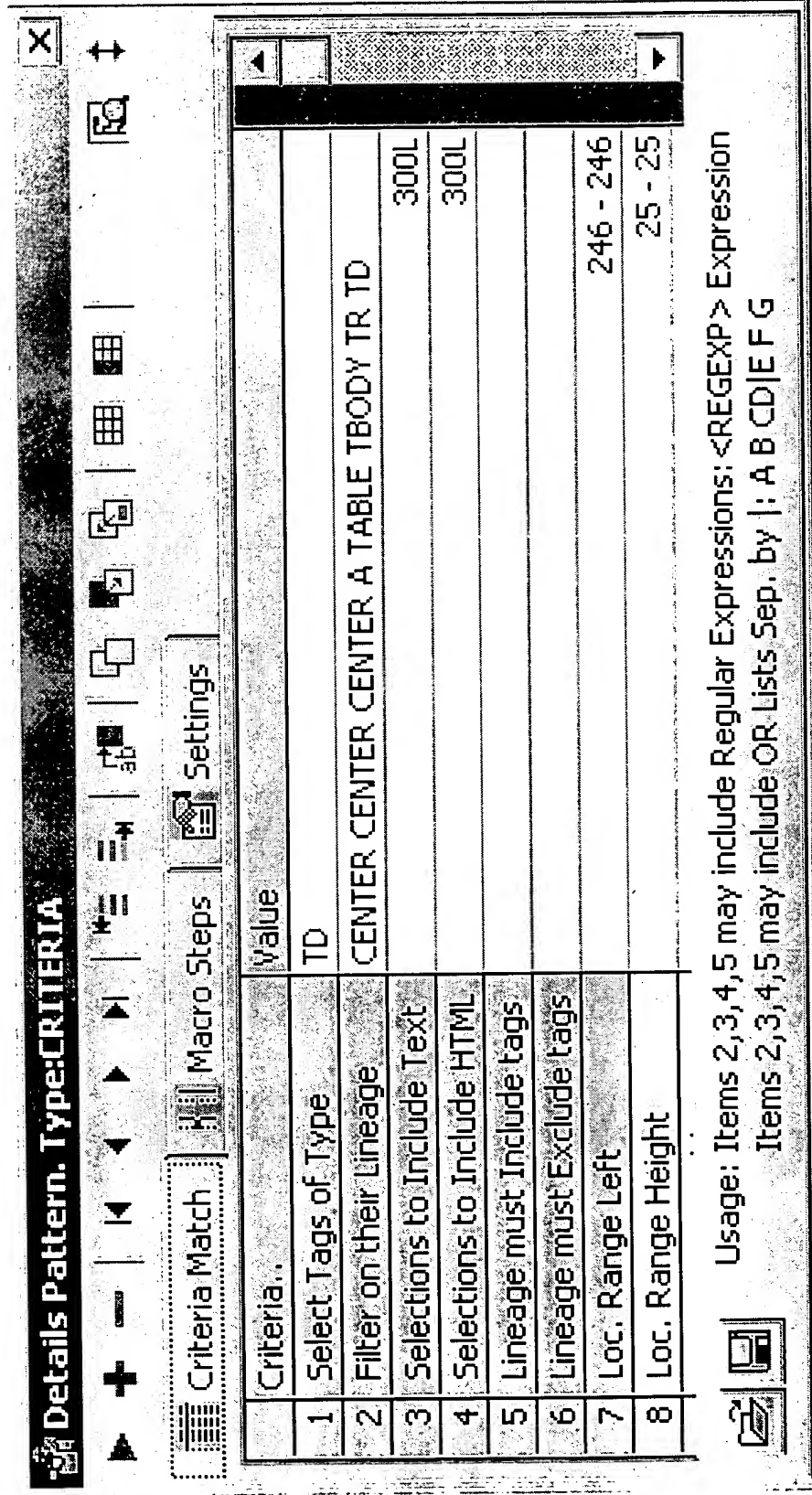


Figure 14

# Flow in Extraction for Different Pattern Types

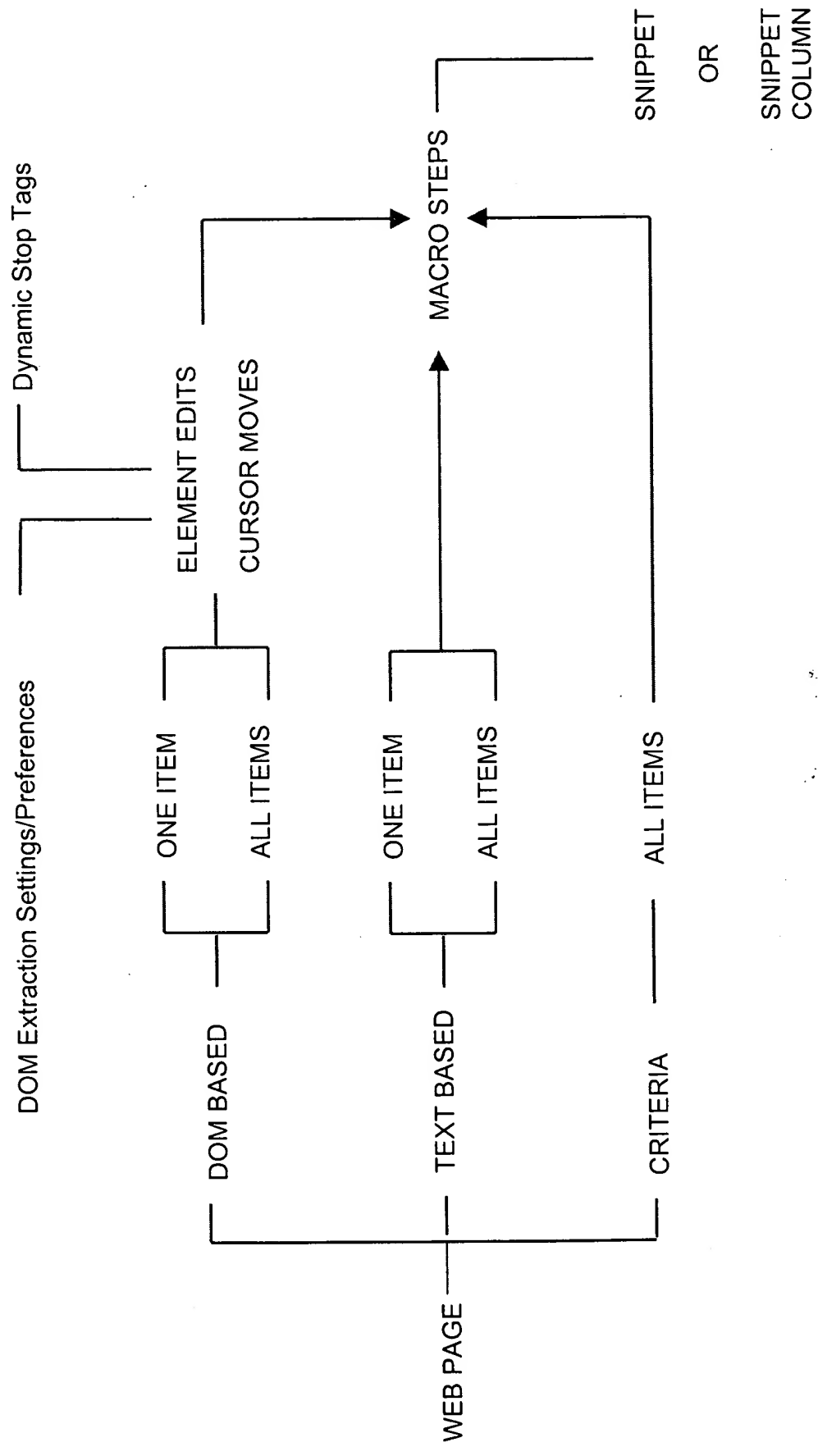


Figure 15



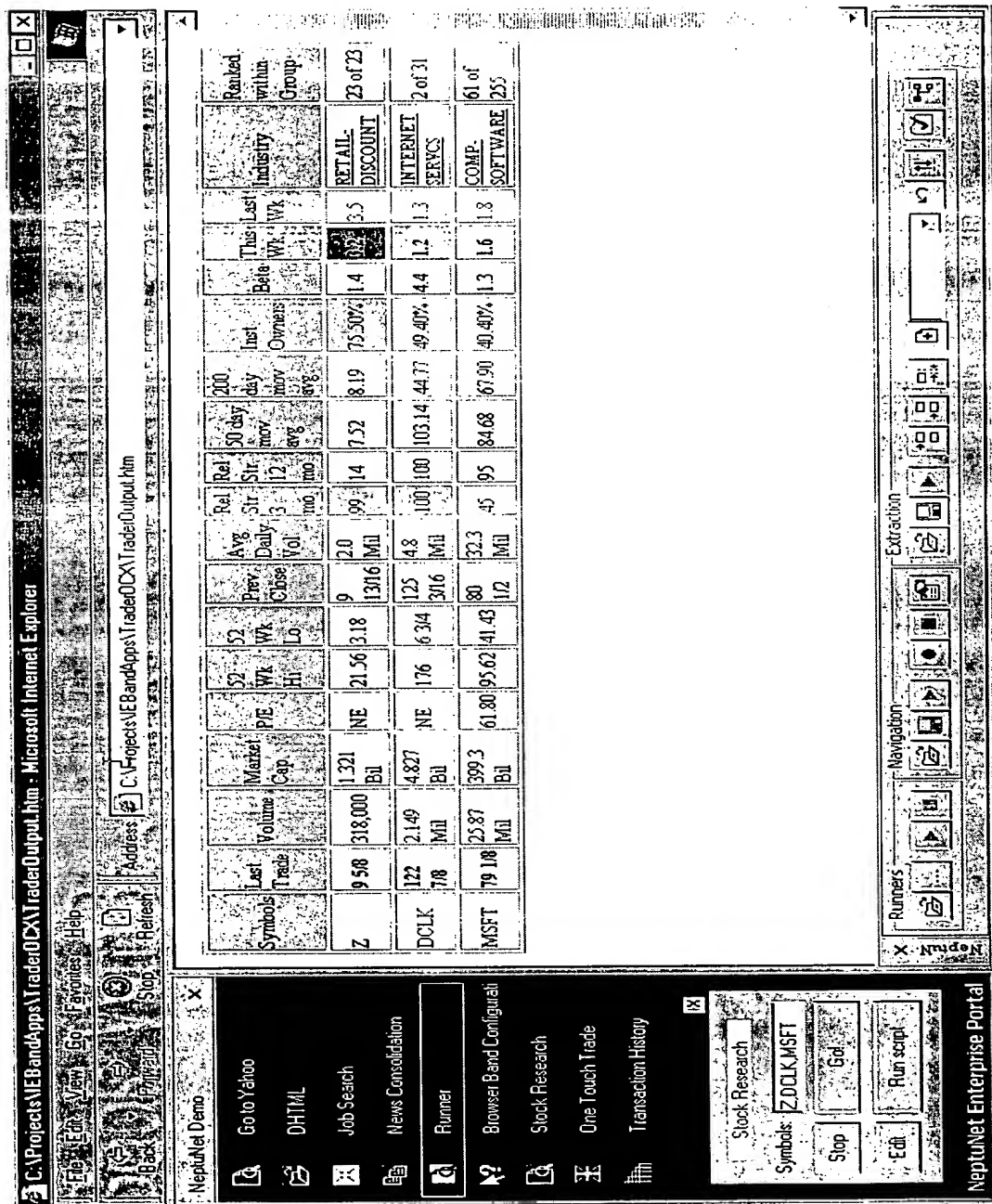


Figure 16